ANALYTICA CHIMICA ACTA, VOL. 249 (1991)

AUTHOR INDEX

Advis, J.P., see Guzman, N.A. 247

Almon, A.C.

Trace multi-element determinations in reactor moderator water: simultaneous determination of copper, gold, silver and mercury using differential-pulse stripping voltammetry 447

Antranikian, G., see Freitag, R. 113 Archambault, J., see Chauret, N. 231

Atakol, O., see Gündüz, T. 427

Bailey, F., see Malinski, T. 35 Balcerzak, J., see Wojciechowski, M. 433

Barnett, N., see Jones, P. 539

Basu, D.

-, Mahalanabis, K.K. and Roy, B.

Simultaneous spectrophotometric determination of metronidazole and furazolidone with multistandard addition and a least-squares method 349

Baxter, D.C., see Bulska, E. 545

Beuvery, E.C., see Coco-Martin, J.M. 257

Billard, V.

-, Martelet, C., Binder, P. and Therasse, J.

Toxin detection using capacitance measurements on immunospecies grafted onto a semiconductor substrate 367

Binder, P., see Billard, V. 367

Brandes, L., see Schügerl, K. 87

Brandes, W., see Scheper, T. 25

Bremle, G., see Gorton, L. 43

Bruce, T.A.

- and Haswell, S.J.

Rig for the study of the gas-sensing properties of metal oxide-based sensors 413

Budantsev, A.Y.

Biosensor for catecholamines with immobilized monoamine oxidase in tissue sections 71

Buffle, J., see De Vitre, R.R. 419

Bugaevsky, A.A.

- and Kholin, Y.V

Computer-aided determination of the composition and stability of complex compounds in solutions with complicated equilibria 353

Bulska, E.

-, Baxter, D.C. and Frech, W.

Capillary column gas chromatography for mercury speciation 545

Bunce, R.

-, Thorpe, G. and Keen, L.

Disposable analytical devices permitting automatic, timed, sequential delivery of multiple reagents 263

Callegaro, L., see Di Martino, A. 291

Canizaro, P.C., see Simoni, J. 169

Carpenter, S.E.

and Small GW

Selection of optimum training sets for use in pattern recognition analysis of chemical data 305

Carpentier, R.

-, Loranger, C., Chartrand, J. and Purcell, M.

Photoelectrochemical cell containing chloroplast membranes as a biosensor for phytotoxicity measurements 55

Cerdà, V., see Gómez, E. 513

Chang, S.-M.

-, Iwasaki, Y., Suzuki, M., Tamiya, E., Karube, I. and Muramatsu. H.

Detection of odorants using an array of piezoelectric crystals and neural-network pattern recognition 323

Chapin, T.P.

-, Johnson, K.S. and Coale, K.H.

Rapid determination of manganese in sea water by flow-injection analysis with chemiluminescence detection 469

Chartrand, J., see Carpentier, R. 55

Chauret, N.

- and Archambault, J.

Fluorimetric detection after liquid chromatographic separation of benzophenanthridine alkaloids obtained from cultured cells 231

Chiswell, B.

and O'Halloran, K.R.

Acid Yellow 17 as a spectrophotometric reagent for the determination of low concentrations of residual free chloring 519

Christensen, L.H.

-, Nielsen, J. and Villadsen, J.

Monitoring of substrates and products during fed-batch penicillin fermentations on complex media 123

Christian, G., see Chung, S. 77

Christian, G.D., see Wen, X. 451

Chung, S.

-, Wen, X., Vilholm, K., De Bang, M., Christian, G. and Ruzicka, J.

Novel flow-injection analysis method for bioprocess monitoring 77

Claes, P.

-, Kenney, A. and Vardy, P.

Instrumentation for molecular size detection for analytical biotechnology 227

Clodfelter, D.K., see Riggin, R.M. 201

Coale, K.H., see Chapin, T.P. 469

Coco-Martin, J.M.

-, Oberink, J.W., Van der Velden-de Groot, T.A.M. and Beuvery, E.C.

Methods for studying the stability of antibody expression by hybridoma cells in homogeneous continuous culture systems 257

Corona, G., see Di Martino, A. 291

Cowan, D., see Ward, J.M. 195

Craig, A.G., see Miller, C. 215

Csöregi, E., see Gorton, L. 43

Danna, A.M., see Meier, H. 405

Danzer, J., see Ogbomo, I. 137

Davidson, V.L.

- and Jones, L.H.

Intermolecular electron transfer from quinoproteins and its relevance to biosensor technology 235

De Bang, M., see Chung, S. 77

De Castro, M.D.L., see Membiela, A. 461

DeFillipo, K.A.

- and Grayeski, M.L.

Flow-injection chemiluminescent method for an enzymelabelled DNA probe 155

Deming, S.N.

Analytical chemistry and chemometrics 303

De Pasquale, M.P., see Di Martino, A. 291

Devi, P.R.

-, Gangaiah, T. and Naidu, G.R.K.

Determination of trace metals in water by neutron activation analysis after preconcentration on a poly(acrylamidoxime) resin 533

De Vitre, R.R.

Tercier, M.-L., Tsacopoulos, M. and Buffle, J.
 Preparation and properties of a mercury-plated iridium-based microelectrode 419

Di Martino, A.

-, Corona, G., Callegaro, L., De Pasquale, M.P., Malcovati, M. and Ginelli, E.

DNA probes in the quality control of pharmaceutical products purified from bovine brain tissue 291

Dominguez, E.

—, Marko-Varga, G., Hahn-Hägerdal, B. and Gorton, L. Activity of immobilized yeast aldehyde dehydrogenase in a flow-injection system 145

Downs, M.E.A., see Saini, S. 1

Dullau, T., see Schügerl, K. 87

Dutta, P.K.

-, Hammons, K., Willibey, B. and Haney, M.A.

Characterization of polyamino acids by high-performance continuous differential viscometry 209

Dykert, J., see Miller, C. 215

Englbrecht, U., see Ogbomo, I. 137 Estela, J.M., see Gómez, E. 513

Fenge, C., see Freitag, R. 113 Feola, M., see Simoni, J. 169

Fish, J.R., see Malinski, T. 35

Forman, L.W.

-, Thomas, B.D. and Jacobson, F.S.

On-line monitoring and control of fermentation processes by flow-injection analysis 101

Fraune, E., see Freitag, R. 113

Frech, W., see Bulska, E. 545

Freitag, R.

-, Fenge, C., Scheper, T., Schügerl, K., Spreinat, A., Antranikian, G. and Fraune, E.

Immunological on-line detection of specific proteins during fermentation processes 113

Gangaiah, T., see Devi, P.R. 533

Gélinas, Y., see Schmit, J.-P. 495

Giffhorn, F., see Scheper, T. 25

Ginelli, E., see Di Martino, A. 291

Gómez, E.

-, Estela, J.M. and Cerdà, V.

Simultaneous spectrophotometric determination of calcium and magnesium in water 513

Gorton, L.

—, Bremle, G., Csöregi, E., Jönsson-Pettersson, G. and Persson, B.

Amperometric glucose sensors based on immobilized glucose-oxidizing enzymes and chemically modified electrodes 43

Gorton, L., see Dominguez, E. 145

Grau, C., see Scheper, T. 25

Grayeski, M.L., see DeFillipo, K.A. 155

Grimalt, J.O., see Olivé, J. 337

Gündüz, N., see Gündüz, T. 427

Gündüz, T.

—, Gündüz, N., Kılıç, E., Atakol, O. and Köseoglu, F. Potentiometric investigations of intramolecular nine- and ten-membered ring hydrogen bonds observed in Schiff bases 427

Guzman, N.A.

-, Trebilcock, M.A. and Advis, J.P.

Capillary electrophoresis for the analytical separation and semi-preparative collection of monoclonal antibodies 247

Hahn-Hägerdal, B., see Dominguez, E. 145 Håkanson, H.

-, Nilsson, M. and Mattiasson, B.

General sampling system for sterile monitoring of biological processes 61

Håkanson, H., see Nilsson, M. 163

Håkanson, H., see Thavarungkul, P. 17

Hall, G.F., see Saini, S. 1

Hammons, K., see Dutta, P.K. 209

Haney, M.A., see Dutta, P.K. 209

Haswell, S.J., see Bruce, T.A. 413

Haviland, C.J., see Riggin, R.M. 201

Hernandez, J.-F., see Miller, C. 215

Holzhauer-Rieger, K., see Schügerl, K. 87

Hotop, S., see Schügerl, K. 87

Hübner, U., see Schügerl, K. 87

Hundeck, H.G., see Scheper, T. 25

Iwasaki, Y., see Chang, S.-M. 323

Jacobson, F.S., see Forman, L.W. 101 John, R.

Spencer, M., Wallace, G.G. and Smyth, M.R.

Development of a polypyrrole-based human serum albumin sensor 381

Johnson, K.S., see Chapin, T.P. 469

Jones, L.H., see Davidson, V.L. 235 Jones, P.

-, Stanley, R. and Barnett, N.

Determination of arsenate, germanate, phosphate and silicate by ion chromatography using a post-column reaction (molybdenum blue) detector 539

Jönsson-Pettersson, G., see Gorton, L. 43

Karpas, Z.

-, Pollevoy, Y. and Melloul, S.

Determination of bromine in air by ion mobility spectrometry 503

Karube, I., see Chang, S.-M. 323

Kashuba, A.T., see Lewis-Russ, A. 509

Keen, L., see Bunce, R. 263

Kenney, A., see Claes, P. 227

Kholin, Y.V., see Bugaevsky, A.A. 353

Kiechle, F., see Malinski, T. 35

Kihara, S., see Miyazaki, S. 525

Kılıç, E., see Gündüz, T. 427

Kipton, H., see Wen, X. 451

Kittsteiner-Eberle, R., see Ogbomo, I. 137

König, W., see Müllner, S. 271

Köseoglu, F., see Gündüz, T. 427

Kovach, P.M., see Riggin, R.M. 201

Kumaran, S., see Meier, H. 405

Lázaro, F., see Membiela, A. 461

Levison, P.R., see Ward, J.M. 195

Lewis-Russ, A.

-, Ranville, J. and Kashuba, A.T.

Differentiation of colloidal and dissolved silica: analytical separation using spectrophotometry and inductively coupled plasma atomic emission spectrometry 509

Liddicoat, M.I., see Upstill-Goddard, R.C. 555

Lochmüller, C.H.

- and Ronsick, C.S.

Isoelectric focusing with thermally formed, stepped-ramp pH gradients: separation of human hemoglobin variants A and S 297

Loranger, C., see Carpentier, R. 55

MacRitchie, F.

Air/water interface studies of proteins 241 Mahalanabis, K.K., see Basu, D. 349

Malcovati, M., see Di Martino, A. 291

Malinski, T.

-, Bailey, F., Fish, J.R. and Kiechle, F.

Determination of nickel accumulation in single biological cells using porphyrinic microsensors 35

Marenchic, I.G., see Taylor, R.F. 67

Marko-Varga, G., see Dominguez, E. 145

Martelet, C., see Billard, V. 367

Matsui, M., see Miyazaki, S. 525

Mattiasson, B., see Håkanson, H. 61

Mattiasson, B., see Nilsson, M. 163 Mattiasson, B., see Thavarungkul, P. 17

McCurley, M.F.

- and Seitz, W.R.

Fiber-optic sensor for salt concentration based on polymer swelling coupled to optical displacement 373

Meier, H.

-, Kumaran, S., Danna, A.M. and Tran-Minh, C.

Rapid measurement of penicillin contained in complex media using enzyme-loaded glass electrodes 405

Melloul, S., see Karpas, Z. 503

Membiela, A.

-, Lázaro, F., De Castro, M.D.L. and Valcárcel, M.

Alternative use of flow-injection analysis and the combination of liquid chromatography and flow-injection analysis for the determination of total and individual bile acid concentrations in serum 461

Miller, C.

—, Hernandez, J.-F., Craig, A.G., Dykert, J. and Rivier, J. Synthesis, purification and characterization of rat histone H2A (1-53)-NH₂ 215

Miyazaki, S.

—, Mukai, H., Umetani, S., Kihara, S. and Matsui, M. Steric effects of polymethylene chain length on the liquid—liquid extraction of Ni(II) and Zn(II) with bis(4-acylpyrazol-5-one) derivatives in the presence or absence of tri-n-octylphosphine oxide 525

Morante, C.

Determination of plant sulphur and sulphate-sulphur by flow-injection analysis using a two-line manifold 479

Mottola, H.A., see Nader, P.R.A. 395

Mukai, H., see Miyazaki, S. 525

Müllner, S.

-, König, W., Neubauer, H.-P., Schmalz, M. and Tripier,

Determination of genetic engineered insulin precursors from Escherichia coli by means of a carboxy terminus-specific radioimmunoassay 271

Mungal, R., see Narinesingh, D. 387

Muramatsu, H., see Chang, S.-M. 323

Nader, P.R.A.

-, Ortiz, P.I. and Mottola, H.A.

Polymer-coated electrode based on the electropolymerization of resole prepolymer mixtures 395

Naidu, G.R.K., see Devi, P.R. 533

Narinesingh, D.

-, Mungal, R. and Ngo, T.T.

Urease coupled to poly(vinyl alcohol) activated by 2-fluoro-1-methylpyridinium salt: preparation of a urease potentiometric electrode and application to the determination of urea in serum 387

Neubauer, H.-P., see Müllner, S. 271

Ngo, T.T., see Narinesingh, D. 387

Nielsen, J., see Christensen, L.H. 123

Nilsson, M.

-, Håkanson, H. and Mattiasson, B.

Flow-injection ELISA for process monitoring and control 163

Nilsson, M., see Håkanson, H. 61

Oberink, J.W., see Coco-Martin, J.M. 257

Ogbomo, I.

—, Kittsteiner-Eberle, R., Englbrecht, U., Prinzing, U., Danzer, J. and Schmidt, H.-L.

Flow-injection systems for the determination of oxidoreductase substrates: applications in food quality control and process monitoring 137

O'Halloran, K.R., see Chiswell, B. 519

Olivé, J.

- and Grimalt, J.O.

Gram-Charlier and Edgeworth-Cramér series in the characterization of chromatographic peaks 337

Ortiz, P.I., see Nader, P.R.A. 395

Persson, B., see Gorton, L. 43 Plötz, F., see Scheper, T. 25 Pollevoy, Y., see Karpas, Z. 503 Powell, J., see Wen, X. 451 Prinzing, U., see Ogbomo, I. 137

Ranville, J., see Lewis-Russ, A. 509 Regnier, F.E., see Riggin, A. 185 Rehr, B., see Scheper, T. 25 Reinhardt, B., see Scheper, T. 25

Purcell, M., see Carpentier, R. 55

Riggin, A.

-, Regnier, F.E. and Sportsman, J.R.

Determination of antibodies to human growth hormone in serum by protein G affinity-reversed-phase tandem column chromatography with fluorescence detection 185

Riggin, R.M.

—, Haviland, C.J., Clodfelter, D.K. and Kovach, P.M.
Chromatographic method for the rapid determination of variant forms of a plasminogen activator 201

Rivier, J., see Miller, C. 215

Ronsick, C.S., see Lochmüller, C.H. 297

Roy, B., see Basu, D. 349

Rüther, F., see Scheper, T. 25 Ruzicka, J., see Chung, S. 77

Ruzicka, J., see Wen, X. 451

Sahm, H., see Scheper, T. 25 Saini, S.

> —, Hall, G.F., Downs, M.E.A. and Turner, A.P.F. Organic phase enzyme electrodes. Review 1

Sakharuk, T.A.

Computation of weighting functions for smoothing two-dimensional data by local polynomial approximation techniques 331

Schelp, C., see Scheper, T. 25

Scheper, T.

—, Brandes, W., Grau, C., Hundeck, H.G., Reinhardt, B., Rüther, F., Plötz, F., Schelp, C., Schügerl, K., Schneider, K.H., Giffhorn, F., Rehr, B. and Sahm, H. Applications of biosensor systems for bioprocess monitor-

ing 25

Scheper, T., see Freitag, R. 113 Schmalz, M., see Müllner, S. 271

Schmidt, H.-L., see Ogborno, I. 137

Schmit, J.-P.

-, Youla, M. and Gélinas, Y.

Multi-element analysis of biological tissues by inductively coupled plasma mass spectrometry 495

Schneider, K.H., see Scheper, T. 25

Schügerl, K.

-, Brandes, L., Dullau, T., Holzhauer-Rieger, K., Hotop, S., Hübner, U., Wu, X. and Zhou, W.

Fermentation monitoring and control by on-line flow injection and liquid chromatography 87

Schügerl, K., see Freitag, R. 113

Schügerl, K., see Scheper, T. 25

Seitz, W.R., see McCurley, M.F. 373

Shadbolt, P., see Ward, J.M. 195 Simoni, G., see Simoni, J. 169

Simoni, J.

-, Simoni, G., Feola, M. and Canizaro, P.C.

Evaluation of anion-exchange liquid chromatography for purification of hemoglobin from peptides and other proteins 169

Small, G.W., see Carpenter, S.E. 305

Smyth, M.R., see John, R. 381

Spencer, M., see John, R. 381

Spencer, R.H., see Taylor, R.F. 67

Sportsman, J.R., see Riggin, A. 185

Spreinat, A., see Freitag, R. 113 Srivastava, A.K., see Volesky, B. 279

Stanley, R., see Jones, P. 539

Suzuki, M., see Chang, S.-M. 323

Tamiya, E., see Chang, S.-M. 323

Taylor, R.F.

-, Marenchic, I.G. and Spencer, R.H.

Antibody- and receptor-based biosensors for detection and process control 67

Tercier, M.-L., see De Vitre, R.R. 419

Thavarungkul, P.

-, Håkanson, H. and Mattiasson, B.

Comparative study of cell-based biosensors using Pseudomonas cepacia for monitoring aromatic compounds 17

Therasse, J., see Billard, V. 367

Thomas, B.D., see Forman, L.W. 101

Thorpe, G., see Bunce, R. 263

Tran-Minh, C., see Meier, H. 405 Trebilcock, M.A., see Guzman, N.A. 247 Tripier, D., see Müllner, S. 271 Tsacopoulos, M., see De Vitre, R.R. 419 Turner, A.P.F., see Saini, S. 1

Umetani, S., see Miyazaki, S. 525 Upstill-Goddard, R.C.

—, Watson, A.J., Wood, J. and Liddicoat, M.I. Sulphur hexafluoride and helium-3 as sea-water tracers: deployment techniques and continuous underway analysis for sulphur hexafluoride 555

Valcárcel, M., see Membiela, A. 461
Van der Velden-de Groot, T.A.M., see Coco-Martin, J.M. 257
Vardy, P., see Claes, P. 227
Vilholm, K., see Chung, S. 77
Villadsen, J., see Christensen, L.H. 123
Volesky, B.

— and Srivastava, A.K.

Culture fluorescence as a marker of physiological state in fermentation process optimization 279

Wallace, G.G., see John, R. 381 Wallace, L.J., see Ward, J.M. 195 Wang, E., see Zhou, J. 489 Ward, J.M.

-, Wallace, L.J., Cowan, D., Shadbolt, P. and Levison, P.R.

Phosphocellulose as a tool for rapid purification of DNAmodifying enzymes 195

Watson, A.J., see Upstill-Goddard, R.C. 555

Wen, X.

—, Kipton, H., Powell, J., Christian, G.D. and Ruzicka, J. Double injection enzymatic flow analysis of glucose using amperometric detection and an oxygen-permeable reaction coil 451

Wen, X., see Chung, S. 77 Willibey, B., see Dutta, P.K. 209 Wojciechowski, M.

- and Balcerzak, J.

Square-wave anodic stripping voltammetry of lead and cadmium at cylindrical graphite fiber microelectrodes with in situ plated mercury films 433

Wood, J., see Upstill-Goddard, R.C. 555

Wu, X., see Schügerl, K. 87

Youla, M., see Schmit, J.-P. 495

Zhou, J.

- and Wang, E.

Ion exchange of cationic drugs at a Nafion-coated electrode in flow-through analysis 489

Zhou, W., see Schügerl, K. 87